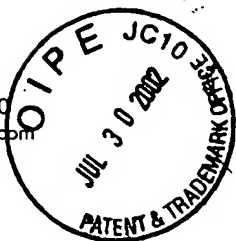


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July 22, 2002

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VIA U.S. FIRST CLASS MAIL

Assistant Commissioner for Patents
Washington, D.C. 20231

Re: Patent Application For: **"Methods and System for Data Packet Filtering Using Tree-Like Hierarchy"**
Serial No.: 10/028,473
Attorney Docket No. 50001.2070
Our File: 50001.2070

Dear Sir:

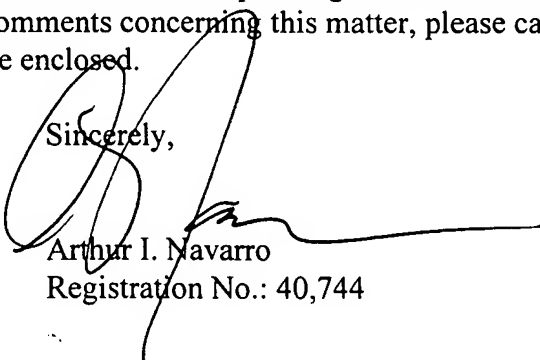
Enclosed for filing please find the following items relating to the above-identified application:

- (1) Letter to the Official Draftsperson;
- (2) Formal Figures; and
- (3) Postcard.

Please charge the payment of any outstanding fees to **Deposit Account No. 500530**. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to **Deposit Account No. 500530**.

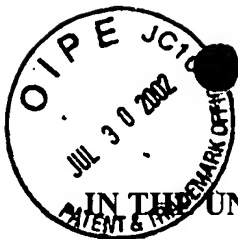
Please return the date-stamped postcard to the corresponding address as indicated. In the meantime, if you have any questions or comments concerning this matter, please call the undersigned. Otherwise, please accept the enclosed.

Sincerely,



Arthur I. Navarro
Registration No.: 40,744

AIN/mb
Enclosures



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In re the Application of: Denz, et al.

Docket No. 50001.2070

Serial No: 10/028,473

Filed: December 28, 2001

For: **"METHODS AND SYSTEM FOR DATA PACKET FILTERING USING TREE-LIKE HEIRARCHY"**

LETTER TO THE OFFICIAL DRAFTSPERSON

July 22, 2002

Ass't Commissioner for Patents

Washington, DC 20231

Dear Sir:

MAILING CERTIFICATE UNDER 37 C.F.R. §1.8(a)
I hereby certify that the above correspondence is being deposited with the U.S. Postal Service as First Class Mail in an envelope addressed to: Ass't Commissioner for Patents, Washington, D.C. 20231 by the person and on the date indicated below.

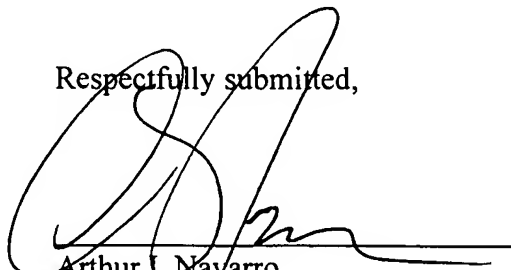
July 22, 2002
Date

Mary Bense
Mary Bense

Please find enclosed formal drawings on the above referenced case.

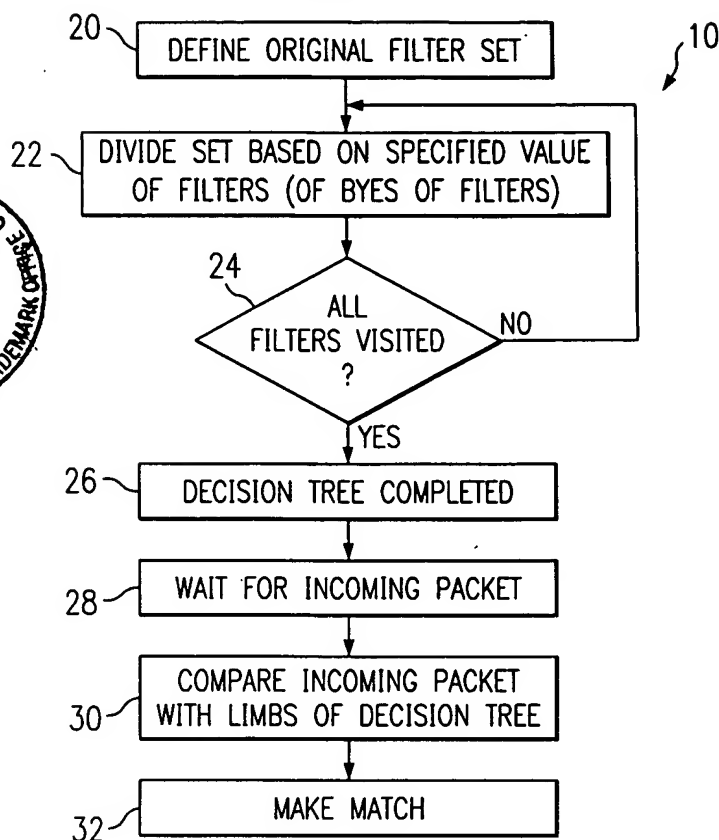
If you have any questions please contact the attorney below.

Respectfully submitted,

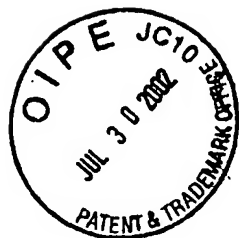

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Attorney for Applicant(s)
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FIG. 1 1/4

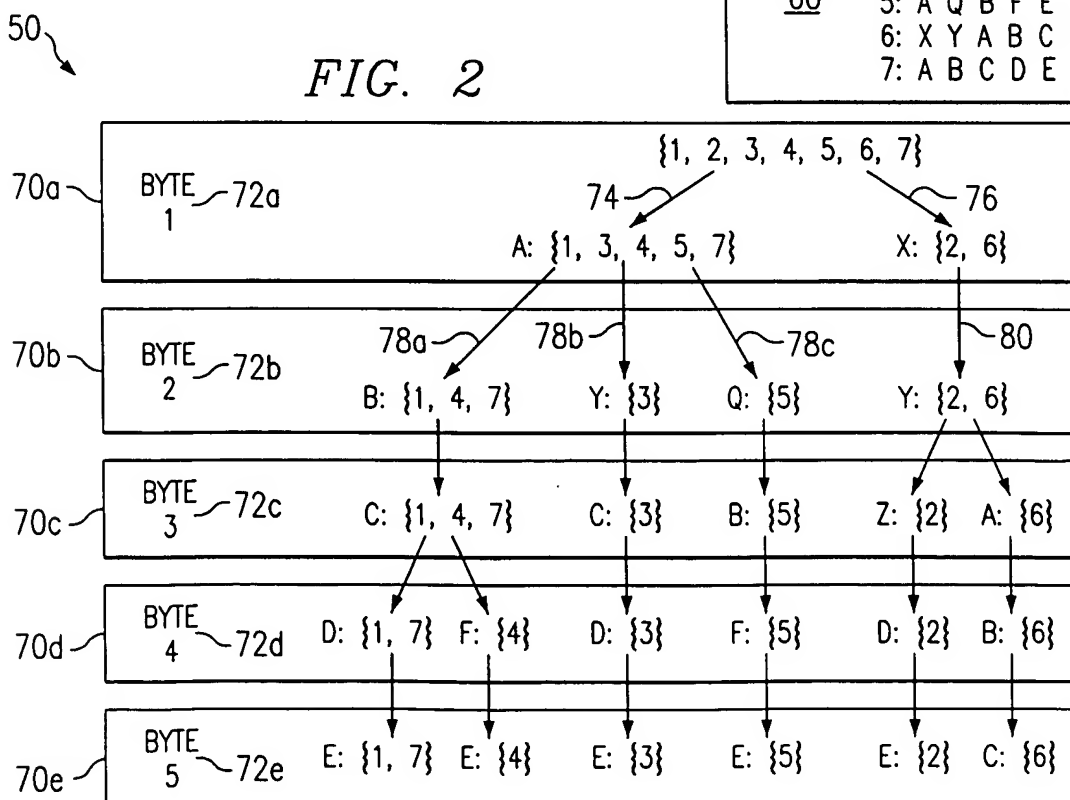


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FILTERS:	1:	A	B	C	D	E
	2:	X	Y	Z	D	E
	3:	A	Y	C	D	E
	4:	A	B	C	F	E
	5:	A	Q	B	F	E
	6:	X	Y	A	B	C
	7:	A	B	C	D	E

FIG. 2





102

FILTERS:	
1:	* * * * *
2:	* * Y Z * E
3:	* * Y C D * E
4:	* * B C * E
5:	* * B F *
6:	* * Y * B *
7:	* * B C D E

100

{1, 2, 3, 4, 5, 6, 7}

BYTE 1

ANY: {1, 2, 3, 4, 5, 6, 7}

BYTE 2

Y: {1, 2, 3, 5, 6}

2/4

ANY: {1, 5}

BYTE 3

B: {1, 5}

C: {1, 4, 7}

ANY: {1}

B: {1, 5, 6}

C: {1, 3, 6}

ANY: {1, 6}

ANY: {1}

BYTE 4

F: {1, 5}

D: {1, 4, 7}

ANY: {1}

B: {1, 6}

E: {1, 2, 6}

B: {1, 6}

F: {1, 5}

BYTE 5

ANY: {1, 5}

E: {1, 4, 7}

ANY: {1}

D: {1, 3}

ANY: {1, 2}

ANY: {1}

ANY: {1}

FIG. 3

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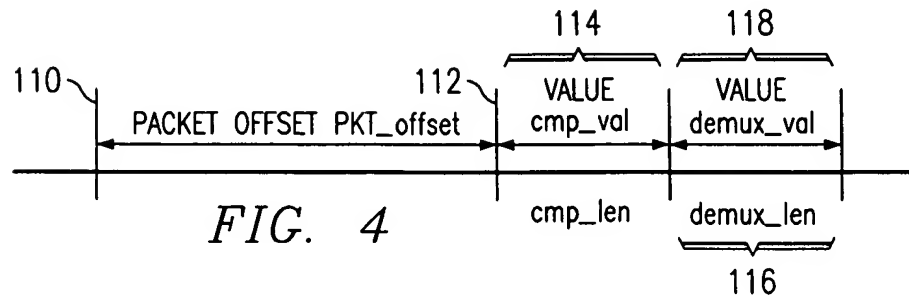


FIG. 4

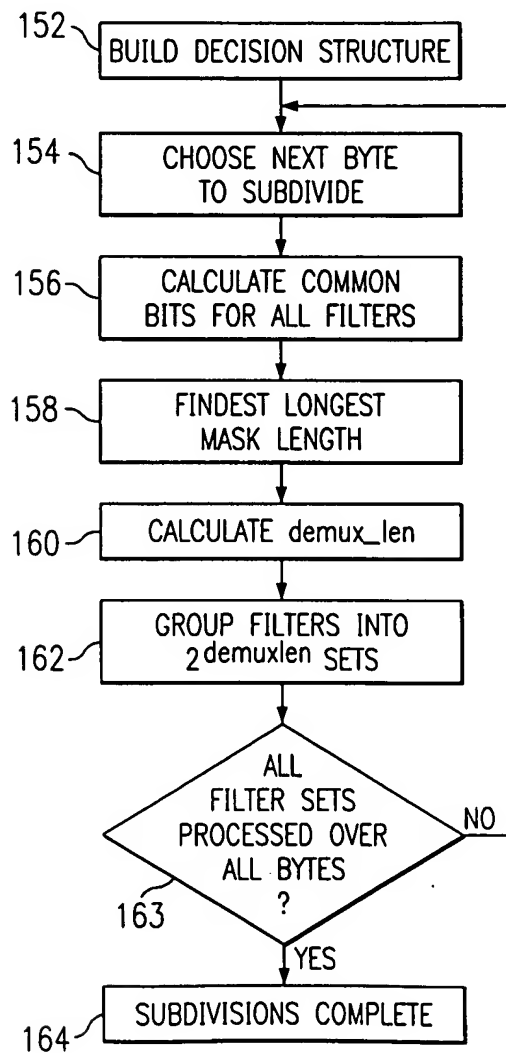


FIG. 5

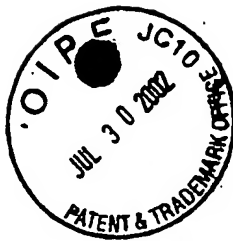


FIG. 6

Filters: f1: 1.2.3.4/32
f2: 1.5.0.0/16
f3: 1.2.0.0/16

```
1  cmpdemux(cmp_len = 7, cmp_val = 0, demux_len = 1)
    0          No Matches (leaf)
    1          {f1, f2, f3} goto 2
    NoMatchCase No Matches (leaf)

2  cmpdemux(cmp_len = 5, cmp_val = 0, demux_len = 3)
    000        No Matches (leaf)
    001        No Matches (leaf)
    010        {f1, f3} goto 3
    011        No Matches (leaf)
    100        No Matches (leaf)
    101        {f2} (leaf)
    110        No Matches (leaf)
    111        No Matches (leaf)
    NoMatchCase No Matches (leaf)

3  cmpdemux(cmp_len = 7, cmp_val = 1, demux_len = 1)
    0          {f3} (leaf)
    1          {f1, f3} (leaf)
    NoMatchCase {f3} (leaf)

4  cmpdemux(cmp_len = 7, cmp_val = 2, demux_len = 1)
    0          {f1, f3} (leaf)
    1          {f3} (leaf)
    NoMatchCase {f3} (leaf)
```

FIG. 7

